

## Author Index

Agabian, N., see Hedstrom, R., 275  
 Alcina, A. and Fresno, M.  
     A tubulin-related 55 kilodalton surface antigen recognized by different *Trypanosoma cruzi* stage-specific monoclonal antibodies from infected mice, 181  
 Alfieri, S.C., Ramazeilles, C., Zilberfarb, V., Galpin, I., Norman, S.E. and Rabinovitch, M.  
     Proteinase inhibitors protect *Leishmania amazonensis* amastigotes from destruction by amino acid esters, 191  
 Aline, Jr., R.F., see Myler, P.J., 227, 243  
 Aline, Jr., R.F., see Scholler, J.K., 89  
 Andrews, P., see Harder, A., 55  
 Arison, B.H., see Schmatz, D.M., 29  
 Arnon, R., see EspinozaB., 171  
 Barrett, J., see Harris, H.I., 105  
 Beechey, R.B., see Harris, H.I., 105  
 Berzins, K., see Ruangjirachuporn, W., 19  
 Bilezikian, J.P., see Morris, S.A., 213  
 Boothroyd, J.C., see Nagel, S.D., 261  
 Brydon, L.J., see Gooday, G.W., 223  
 Bushell, G.R., see Cooper, J.A., 251  
 Bushell, G.R., see Ramasamy, R., 125  
 Cardoso de Almeida, M.L., see Schenkman, S., 141  
 Carlsson, J., see Ruangjirachuporn, W., 19  
 Chappell, L.H., see Gooday, G.W., 223  
 Cooper, J.A., Ingram, L.T., Bushell, G.R., Fardoulis, C.A., Stenzel, D., Schofield, L. and Saul, A.J.  
     The 140/130/105 kilodalton protein complex in the rhoptries of *Plasmodium falciparum* consists of discrete polypeptides, 251  
 Crampton, J., see Ellis, J., 9  
 Culpepper, J., see Hedstrom, R., 275  
 Dashkevich, M.P., see Schmatz, D.M., 29  
 Davern, K.M., see Rogers, M.V., 77  
 Desai, S., see Ruff, V., 1  
 Dexter, A., see Ramasamy, R., 125  
 DuBrul, E.F., see Ruff, V., 1  
 Dubremetz, J.-F., see Sadak, A., 203  
 Ellis, J. and Crampton, J.  
     Characterisation of a simple, highly repetitive DNA sequence from the parasite *Leishmania donovani*, 9  
 Espinoza, B., Tarrab-Hazdai, R., Silman, I. and Arnon, R.  
     Acetylcholinesterase in *Schistosoma mansoni* is anchored to the membrane via covalently attached phosphatidylinositol, 171  
 Fardoulis, C.A., see Cooper, J.A., 251  
 Fortier, B., see Sadak, A., 203  
 Fresno, M., see Alcina, A., 181  
 Galbraith, R.A. and McElrath, M.J.  
     Heme binding to *Leishmania mexicana amazonensis*, 47  
 Galpin, I., see Alfieri, S.C., 191  
 Gargees, G.S., see Rassam, M.B. A.-K., 61  
 Gibson, W.C., see Marchand, M., 65  
 Gooday, G.W., Brydon, L.J. and Chappell, L.H.  
     Chitinase in female *Onchocerca gibsoni* and its inhibition by allosamidin, 223  
 Goossens, J., see Harder, A., 55  
 Harder, A., Goossens, J. and Andrews, P.  
     Influence of praziquantel and  $\text{Ca}^{2+}$  on the bilayer-isotropic-hexagonal transition of model membranes, 55  
 Harris, H.I., Beechey, R.B., Linstead, D. and Barrett, J.  
     Nucleoside uptake by *Trichomonas vaginalis*, 105  
 Hatcher, V., see Morris, S.A., 213  
 Hedstrom, R., Culpepper, J., Schinski, V., Agabian, N. and Newport, G.  
     Schistosome heat-shock proteins are immunologically distinct host-like antigens, 25  
 Henderson, T., see Ramasamy, R., 125  
 Hui, G.S.N. and Siddiqui, W.A.  
     Characterization of a *Plasmodium falciparum* polypeptide associated with membrane vesicles in the infected erythrocytes, 283  
 Ingram, L.T., see Cooper, J.A., 251  
 Ingram, L.T., see Ramasamy, R., 125  
 Keeghan, M., see Ramasamy, R., 125  
 Kidson, C., see Ramasamy, R., 125  
 Komuniecki, R., see Ruff, V., 1  
 Licht, B., see Samad, A., 161  
 Liesch, J.M., see Schmatz, D.M., 29  
 Linstead, D., see Harris, H.I., 105  
 Marchand, M., Poliszczak, A., Gibson, W.C., Wierenga, R.K., Opperdoes, F.R. and Michels, P.A.M.  
     Characterization of the genes for fructose-bisphosphate aldolase in *Trypanosoma brucei*, 65  
 McElrath, M.J., see Galbraith, R.A., 47  
 Mellors, A., see Samad, A., 159  
 Michels, P.A.M. see Marchand, M., 65  
 Mitchell, G.F., see Rogers, M.V., 77  
 Moloney, M.B., see Ramasamy, R., 125  
 Moritz, R.L., see Ramasamy, R., 125  
 Morris, S.A., Tanowitz, H., Hatcher, V., Bilezikian, J.P. and Wittmer, M.  
     Alterations in intracellular calcium following infection of human endothelial cells with *Trypanosoma cruzi*, 213  
 Myler, P.J., Aline, Jr., R.F., Scholler, J.K. and Stuart, K.D.  
     Multiple events associated with antigenic switching in *Trypanosoma brucei*, 227  
 Myler, P.J., Aline, Jr., R.F., Scholler, J.K. and Stuart, K.D.  
     Changes in telomere length associated with antigenic variation in *Trypanosoma brucei*, 243

Nagel, S.D. and Boothroyd, J.C.  
The  $\alpha$  and  $\beta$ -tubulins of *Toxoplasma gondii* are encoded by single copy genes containing multiple introns, 261

Newport, G., see Hedstrom, R., 275

Nogueira, N., see Schechter, M., 37

Norman, S.E., see Alfieri, S.C., 191

Opperdoes, F.R., see Marchand, M., 65

Perlmann, H., see Ruangjirachuporn, W., 19

Perlmann, P., see Ruangjirachuporn, W., 19

Poliszczak, A., see Marchand, M., 65

Prichard, R.K., see Tang, L., 133

Rabinovitch, M., see Alfieri, S.C., 191

Ramasamy, R., Simpson, R.J., Dexter, A., Keeghan, M., Reed, C., Bushell, G., Ingram, L.T., Henderson, T., Moloney, M.B., Moritz, R.L., Rubira, M.R. and Kidson, C.  
Isolation and partial characterisation of a 26 kilodalton antigen from *Plasmodium falciparum* recognised by an inhibitory monoclonal antibody, 125

Ramazeilles, C., see Alfieri, S.C., 191

Rassam, M.B.A.-K. and Robert, Z.J.  
Solubilization and kinetic characterization of mitochondrial adenosine triphosphatase from *Leishmania donovani* promastigotes, 153

Rassam, M.B.A.-K., Shanshal, M., and Gargees, G.S.  
Isolation and identification of coenzyme Q from *Leishmania donovani*, 61

Reed, C., see Ramasamy, R., 125

Robert, Z.J., see Rassam, M.B.A.-K., 153

Rogers, M.V., Davern, K.M., Smythe, J.A. and Mitchell, G.F.  
Immunoblotting analysis of the major integral membrane protein antigens of *Schistosoma japonicum*, 77

Ruangjirachuporn, W., Wählén, B., Perlmann, H., Carlson, J., Berzins, K., Wahlgren, M., Udomsangpetch, R., Wigzell, H. and Perlmann, P.  
Monoclonal antibodies to a synthetic peptide corresponding to a repeated sequence in the *Plasmodium falciparum* antigen Pf155, 19

Rubira, M.R., see Ramasamy, R., 125

Ruff, V., Desai, S., DuBrul, E.F. and Komuniecki, R.  
In vitro synthesis and processing of components of the *Ascaris suum* pyruvate dehydrogenase complex, 1

Sadak, A., Taghy, Z., Fortier, B. and Dubremetz, J.-F.  
Characterization of a family of rhoptry proteins of *Toxoplasma gondii*, 203

Samad, A., Licht, B., Stalmach, M.E. and Mellors, A.  
Metabolism of phospholipids and lysophospholipids by *Trypanosoma brucei*, 159

Saul, A.J., see Cooper, J.A., 251

Schechter, M. and Nogueira, N.  
Variations induced by different methodologies in *Trypanosoma cruzi* surface antigen profiles, 37

Schenkman, S., Yoshida, N. and Cardoso de Almeida, M.L.  
Glycophosphatidylinositol-anchored proteins in metacyclic trypomastigotes of *Trypanosoma cruzi*, 141

Schinski, V., see Hedstrom, R., 275

Schmatz, D.M., Arison, B.H., Dashkevitz, M.P., Liesch, J.M. and Turner, M.J.  
Identification and possible role of D-mannitol and 2-O-methyl-chiroinositol (quebrachitol) in *Eimeria tenella*, 29

Schofield, L., see Cooper, J.A., 251

Scholler, J.K., Aline, Jr., R.F. and Stuart, K.D.  
Variant specific transcripts from the co-transposed segments of variant surface glycoprotein genes in *Trypanosoma brucei*, 89

Scholler, J.K., see Myler, P.J., 229, 243

Shanshal, M., see Rassam, M.B.A.-K., 61

Siddiqui, W.A., see Hui, G.N.S., 293

Silman, I., see Espinoza, B., 171

Simpson, R.J., see Ramasamy, R., 125

Smythe, J.A., see Rogers, M.V., 77

Stalmach, M.E., see Samad, A., 159

Stenzel, D., see Cooper, J.A., 251

Stuart, K.D., see Myler, P.J., 227, 243

Stuart, K.D., see Scholler, J.K., 89

Taghy, Z., see Sadak, A., 205

Tang, L. and Prichard, R.K.  
Comparison of the properties of tubulin from *Nippostrongylus brasiliensis* with mammalian brain tubulin, 133

Tanowitz, H., see Morris, S.A., 213

Tarrab-Hazdai, R., see Espinoza, B., 171

Turner, M.J., see Schmatz, D.M., 29

Udomsangpetch, R., see Ruangjirachuporn, Z., 19

Wahlgren, M., see Ruangjirachuporn, W., 19

Wählén, B., see Ruangjirachuporn, W., 19

Weber, J.L.  
Interspersed repetitive DNA from *Plasmodium falciparum*, 117

Wierenga, R.K., see Marchand, M., 65

Wigzell, H., see Ruangjirachuporn, W., 19

Wittner, M., see Morris, S.A., 213

Yoshida, N., see Schenkman, S., 141

Zilberfarb, V., see Alfieri, S.C., 191

## Subject Index

Acetylcholinesterase, 171  
 Acyl CoA-hydrolase, 159  
 Acyltransferase, 159  
 Aldolase, 65  
 Alkaline phosphatase, 171  
 Allosamidin, 223  
 Amino acid ester, 191  
 Amino acid sequence, 125  
 Anthelmintic, 133  
 Antigen isolation, 125  
 Antigen Pf155, 19  
 Antigenic complex, 251  
 Antigenic switching, 243  
 Antigenic variation, 227  
 Antipain, 191  
*Ascaris suum*  
 ATPase, 153  
 Benzimidazole, 133  
 Bilayer, 55  
 Bradyzoite, 203  
 Calcium, 55  
 Chitin, 223  
 Chitinase, 223  
 Chymostatin, 191  
 Chymostatin analogue, 191  
 Coenzyme Q, 61  
 Cross reacting determinant, 141  
 Dihydroliopoyl transacetylase, 1  
 Egg shell, 223  
*Eimeria tenella*, 29  
 Electrophoresis, 153  
 Endothelial cell, 213  
 Epimastigote, 37  
 F<sub>1</sub> ATPase, 153  
 Fatty acid, 159  
 Gene, 65  
 Gene conversion, 243  
 Genome heterogeneity, 9  
 Genomic rearrangements, 227  
 Genomic recombination, 243  
 Glycophosphatidylinositol anchored protein, 141  
 Glycosome, 65  
 Heat shock protein Hsp70, 275  
 Heme binding, 47  
 Hexagonal, 55  
 High performance liquid chromatography, 125  
 Host-like antigen, 275  
 In vitro translation, 1  
 Infected erythrocyte, 283  
 Integral membrane proteins, 77  
 Intracellular calcium, 213  
 Kinetics, 153  
*Leishmania*, 61, 153  
*Leishmania amazonensis*, 191  
*Leishmania donovani*, 9  
*Leishmania mexicana amazonensis*, 47  
 Leupeptin, 191  
 Lynophosphatidylcholine, 159  
 Malaria, 117, 125  
 Mannitol, 29  
 Mannitol cycle, 29  
 Maurer's cleft, 283  
 Membrane antigen, 77  
 Metacyclic trypomastigote, 141  
 2-O-Methyl-chiro-inositol, 29  
 Monoclonal antibody, 19, 125, 181, 203, 251, 283  
 Nematode, 133  
*Nippostrongylus brasiliensis*, 133  
 Nucleoside transport inhibitor, 105  
 Nucleoside uptake, 105  
*Onchocerca gibsoni*, 223  
 Phosphatidylinositol-specific phospholipase C, 171  
 Phospholipase, 159  
 Phospholipase C, 141  
 Phospholipid, 55, 159  
*Plasmodium falciparum*, 19, 117, 125, 251, 283  
 Polyadenylation, 89  
 Polyol, 29  
 Praziquantel, 55  
 Proteins release by phospholipase, 171  
 $\alpha$ -Pyruvate dehydrogenase, 1  
 Quebrachitol, 29  
 Radiolabelling protocol, 37  
 Repetitive DNA, 117  
 Repetitive sequence, 9  
 Rhoptry antigen, 251  
 Rhoptry, 203  
 RNA processing, 89  
*Schistosoma japonicum*, 77, 275  
*Schistosoma mansoni*, 77, 171, 275  
 Spliced leader, 89  
 Splicing, 261  
 Sporozoite, 203

Sterol, 61  
Substrate specificity, 105  
Surface antigen, 37  
Synthetic peptide, 19

Tachyzoite, 203  
Telomere, 243  
*Toxoplasma*, 261  
*Toxoplasma gondii*, 203  
Transcription unit, 261  
Transcriptional activation and inactivation, 243  
Transition, 55

*Trichomonas vaginalis*, 105  
Triton X-114, 77  
*Trypanosoma brucei*, 65, 227, 243  
*Trypanosoma cruzi*, 37, 141, 181, 213  
Trypanosome, 159  
Tubulin, 133, 181, 261

Ubiquinone, 61

Variant surface glycoprotein, 89  
Vesicle, 283

